

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P754581

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR3070959030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7916.3 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

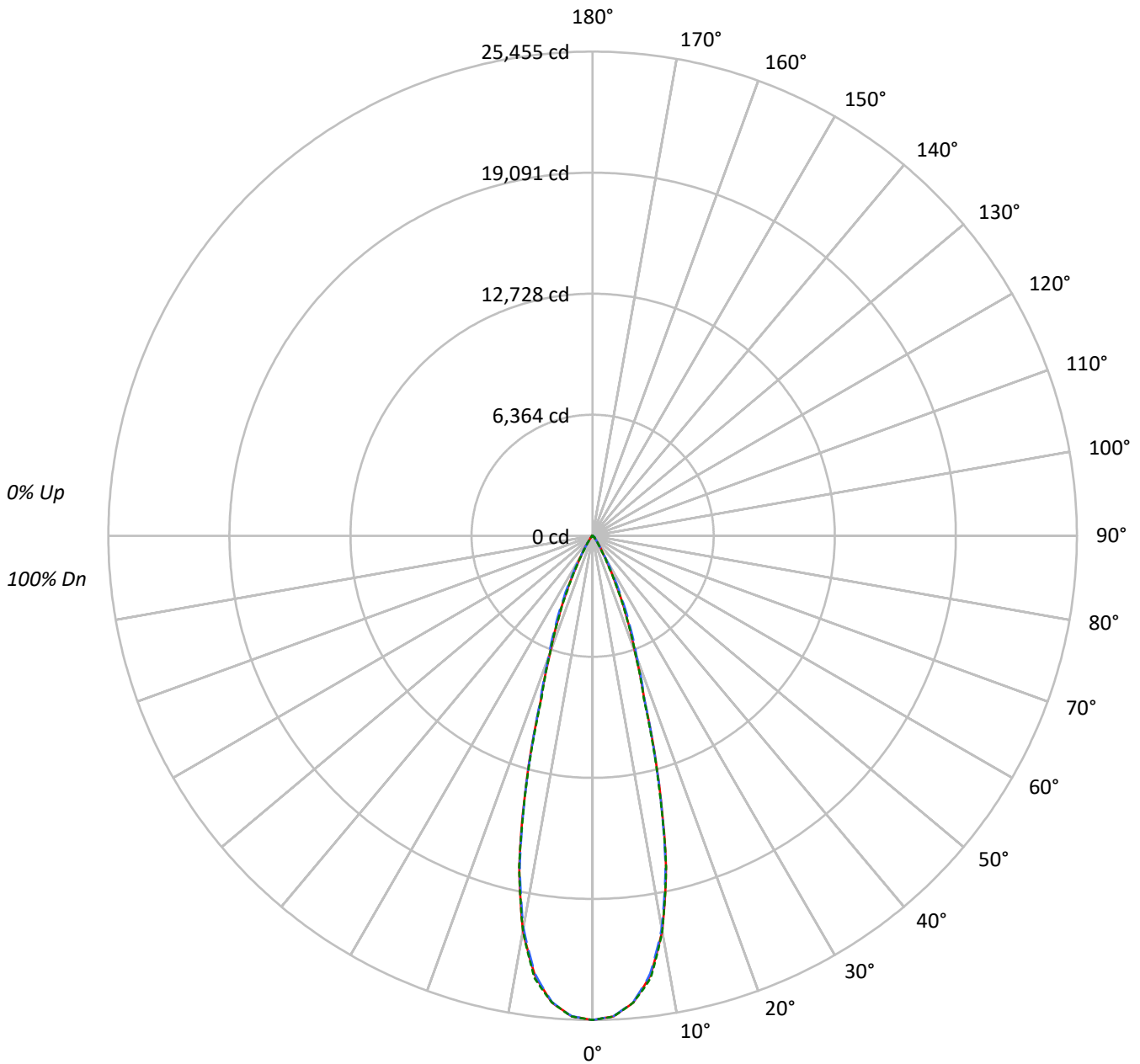


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1948412	1948412	1948412
5°	1892473	1890268	1892573
10°	1639172	1627615	1638784
15°	1069479	1063734	1058385
20°	531800	551757	531092
25°	267887	302083	262397
30°	107255	116862	93449
35°	49749	47646	39937
40°	21483	23851	20234
45°	15155	18803	15285
50°	5204	13694	5502
55°	3003	5672	3163
60°	2097	2480	2097
65°	1358	1358	1358
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18803 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2238.4	28.3
10°-20°	3604.9	45.5
20°-30°	1557.8	19.7
30°-40°	355.0	4.5
40°-50°	121.9	1.5
50°-60°	29.8	0.4
60°-70°	7.7	0.1
70°-80°	0.8	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7401.1	93.5
0°-40°	7756.2	98.0
0°-60°	7907.8	99.9
0°-90°	7916.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7916.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25455	25455	25455	25455	25455	
5°	24630	24606	24601	24653	24631	2240
15°	13496	13334	13424	13380	13356	3614
25°	3172	3292	3577	3208	3107	1518
35°	532	544	510	506	427	361
45°	140	174	174	174	141	99
55°	22	24	42	25	24	22
65°	8	8	8	8	8	7
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25455.0	25455.0	25455.0	25455.0	25455.0
2.5°	25286.3	25268.8	25278.8	25291.3	25296.3
5°	24630.1	24606.4	24601.4	24652.6	24631.4
7.5°	23306.7	23272.9	23221.7	23337.9	23446.6
10°	21089.6	21052.1	20940.9	20995.9	21084.6
12.5°	17816.5	17695.3	17692.8	17867.7	17844.0
15°	13496.1	13333.6	13423.6	13379.9	13356.1
17.5°	9075.7	9013.2	9133.2	9097.0	8940.7
20°	6528.7	6545.0	6773.7	6658.7	6520.0
22.5°	4764.1	4822.8	5094.0	4797.8	4689.1
25°	3171.9	3291.9	3576.8	3208.1	3106.9
27.5°	1950.9	2005.9	2294.5	1925.9	1870.9
30°	1213.5	1186.0	1322.2	1134.8	1057.3
32.5°	796.1	761.1	804.8	722.4	659.9
35°	532.4	543.6	509.9	506.2	427.4
37.5°	332.4	382.4	337.4	359.9	274.9
40°	215.0	277.4	238.7	263.7	202.5
42.5°	176.2	213.7	196.2	208.7	180.0
45°	140.0	173.7	173.7	173.7	141.2
47.5°	77.5	116.2	148.7	118.7	82.5
50°	43.7	58.7	115.0	61.2	46.2
52.5°	30.0	33.7	78.7	35.0	31.2
55°	22.5	23.7	42.5	25.0	23.7
57.5°	17.5	18.7	22.5	18.7	17.5
60°	13.7	13.7	16.2	15.0	13.7
62.5°	10.0	10.0	11.2	10.0	10.0
65°	7.5	7.5	7.5	7.5	7.5
67.5°	3.7	5.0	5.0	5.0	5.0
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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